

Infosafe No™ 3NUWQ	Issue Date : June 2021	ISSUED by NUFARMNZ
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 Product Name **SERO® 750WG**

1. Identification

GHS Product Identifier	SERO® 750WG
Product Code	00603
Product Type	Herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
E-mail Address	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	For the control of broadleaf weeds in wheat, barley and oats, and for use in conservation tillage.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

GHS classification of the substance/mixture	Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, New Zealand. Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.
Signal Word (s)	WARNING
Hazard Statement (s)	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H421 Very toxic to the soil environment.
Precautionary statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Exclamation mark, Health hazard, Environment



Precautionary statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280d Wear protective gloves. P280e Wear eye protection/face protection.
Precautionary statement – Response	P302+P352 IF ON SKIN: Wash with plenty of water. P332+P313 If skin irritation occurs: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.

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--------------------	------------------------	--------------------

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Precautionary statement – Disposal	P501 Dispose of contents/container to an approved landfill as per the label directions.
Other Information	6.3A skin irritant, 6.4A eye irritant, 6.5B sensitiser, 6.9B target organ toxicant, 9.1A aquatic toxicant, 9.2A soil toxicant,

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Tribenuron-methyl	101200-48-0	750 g/kg
	Ingredients determined to be non-hazardous	-	250 g/kg

4. First-aid measures

First Aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye contact	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically. No specific antidote.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, carbon dioxide or dry chemical.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems. Keep containers cool with water spray.
Specific hazards arising from the chemical	Dust explosion possible if in powder or granular form, mixed with air.
Hazchem Code	2Z
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	Wear protective clothing. Clear area of unprotected personnel. Eliminate all ignition sources and naked lights. Use non-sparking utensils. Sweep or vacuum up solids without generating dust. Contain liquid spills and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

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Prevent contamination of soil and water.

7. Handling and storage

Precautions for Safe Handling The person mixing or applying SERO 750WG must be a 'Qualified Contractor' or 'Qualified Loader'. For more information refer to the Hazardous Substances Property Controls Notice 2017. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.

This product must not be applied into or onto water.
 Avoid skin and eye contact and inhalation of spray mist.
 CERTIFIED HANDLER : Is not required.
 TRACKING : Is not required.

RECORD KEEPING: Records of use as described in NZS8409 Management of Agrichemicals must be kept if 3kg or more applied within 24 hours.

BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

Conditions for safe storage, including any incompatibilities

Keep out of reach of children.

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

Stores containing 100kg of SERO 750WG are subject to signage, and more than 100kg require emergency response plans.

Other Information

Always read the label and any attached leaflet before use.

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

Occupational exposure limit values No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

Appropriate engineering controls Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment When opening the container, preparing spray and using the prepared spray wear safety goggles with side shields, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.

Hygiene Measures Do not eat, drink or smoke while using.
 Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. Wash splashes of concentrate from skin immediately.

9. Physical and chemical properties

Form	Solid
Appearance	Off white to cream free flowing cylindrical rod shaped granule.
Melting Point	>100°C
Solubility in Water	Disperses in water. Not soluble.
pH	5.0-8.0 (1% aq)
Vapour Pressure	5.2 x 10 ⁻⁵ mPa (25°C) for tribenuron-methyl.
Vapour Density (Air=1)	Information not available.
Partition Coefficient: n-octanol/water	Kow LogP=0.78 (pH7, 25°C) for tribenuron-methyl.
Density	~560g/L
Flash Point	N/A
Flammability	N/A

Infosafe No™ 3NUWQ	Issue Date : June 2021	ISSUED by NUFARMNZ
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Auto-Ignition Temperature	Information not available.
Flammable Limits - Lower	N/A
Flammable Limits - Upper	N/A
Initial boiling point and boiling range	N/A
Kinematic Viscosity	Information not available.
Other Information	(WG) Water Dispersible Granule

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Temperature extremes.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

Toxicology Information	No specific toxicological data is available for this product. Data below is for constituents.
Acute Toxicity - Oral	LD50 (rat) >5,000 mg/kg for tribenuron-methyl
Acute Toxicity - Dermal	LD50 percutaneous (rabbit) >5,000mg/kg for tribenuron-methyl
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.0 mg/l for tribenuron-methyl
Skin Sensitisation	May cause sensitisation from prolonged skin contact.
Germ cell mutagenicity	Based on available data classification criteria is not met.
Carcinogenicity	Based on available data classification criteria is not met.
Reproductive Toxicity	Based on available data classification criteria is not met.
STOT-repeated exposure	May cause damage to organs through prolonged repeated exposure.
Aspiration Hazard	Based on available data classification criteria is not met.
Serious eye damage/irritation	May cause slight eye irritation.
Skin corrosion/irritation	Prolonged contact may cause slight irritation.
Subchronic/Chronic Toxicity	A 90-day rat subchronic feeding study conducted at dose levels of 0, 5, 87.5, and 250mg/kg/day with a NOEL of 5 mg/kg/day and a LOEL of 87.5mg/kg/day.
Other Information	The Australian Acceptable Daily Intake (ADI) for tribenuron-methyl for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.95 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', December 2020).

12. Ecological information

Persistence and degradability	The degradability of the product is not known.
Mobility	Information not available for product.
Environmental Fate	Tribenuron-methyl is rapidly and extensively metabolised in plants and animals. DT50 of tribenuron methyl in field soils of intended use 3.5-5.1 d.

Infosafe No™ 3NUWQ	Issue Date : June 2021	ISSUED by NUFARMNZ
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Bioaccumulative Potential	Degradation in soil occurs primarily by aqueous hydrolysis and by direct microbial degradation. Hydrolysis is faster in acidic rather than alkaline soils.
Basis for Assessment	Tribenuron methyl has low bioaccumulation potential. $\log P = 0.78$ (25°C)
Acute Toxicity - Fish	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
Acute Toxicity - Daphnia	LC50 (96hr) for rainbow trout is 738 mg/l for tribenuron-methyl
Acute Toxicity - Algae	LC50 (48hr) for daphnia is 894 mg/l for tribenuron-methyl.
Acute Toxicity - Other Organisms	EC50 (120h) for green algae 0.0208 mg/l for tribenuron-methyl.
	LD50 for bobwhite quail is >2,250 mg/kg for tribenuron-methyl

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (tribenuron-methyl)
Transport hazard class(es)	9
Hazchem Code	2Z
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry more than 3KG of SERO 750WG on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. Regulatory information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P9295 See www.foodsafety.govt.nz for registration conditions
Hazard Rating Systems	Approved pursuant to the HSNO Act 1996, Approval Code HSR101070 See www.epa.govt.nz for approval controls. NFPA/HMIS: 2-1-1

16. Other Information

Date of preparation or last revision of SDS	June 2016
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Infosafe No™ 3NUWQ	Issue Date : June 2021	ISSUED by NUFARMNZ
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Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
24Hr Tollfree Emergency No: 0800 651 911
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Revisions 5 yearly review carried out. Various changes and updates made to document.

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